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APPLICATION NO. FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/797,911 0	3/09/2004	Monika Fleischmann	1020-010US01 . 3361		
28863 7590 SHUMAKER & SIEFF	04/12/2007 ERT P A	EXAMINER			
1625 RADIO DRIVE			TRAN, HENRY N		
SUITE 300 WOODBURY, MN 55	125	ART UNIT	PAPER NUMBER		
,			2629		
SHORTENED STATUTORY PERIOD	OE BESDONSE	MAIL DATE	DELIVED	Y MODE	
3 MONTHS	OI RESIGNSE	04/12/2007	DELIVERY MODE PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Applicatio	n No.	Applicant(s)			
Office Action Summary		10/797,91	1	FLEISCHMANN ET AL.			
		Examiner		Art Unit			
		Henry N. T		2629			
Period fo	The MAILING DATE of this communication ap or Reply	opears on the	cover sheet with the c	orrespondence ad	ddress		
WHI(- Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING Ensions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	DATE OF TH .136(a). In no eve d will apply and wil tte, cause the appli	IS COMMUNICATION nt, however, may a reply be tim expire SIX (6) MONTHS from cation to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	,		
Status							
1) 又	Responsive to communication(s) filed on 26 I	March 2007.					
	This action is FINAL . 2b)⊠ This action is non-final.						
- '=	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merit						
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	4) Claim(s) <u>1-5</u> is/are pending in the application.						
,	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
′	⊠ Claim(s) <u>1</u> is/are rejected.						
· —							
· ·	Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers						
	The specification is objected to by the Examin	ner .					
-			☐ objected to by the I	Evaminer			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correct		•	• •	:FR 1 121(d)		
11)	The oath or declaration is objected to by the E						
	under 35 U.S.C. § 119						
•	Acknowledgment is made of a claim for foreig	ın priority unc	ler 35 I I S C & 119/a	1-(d) or (f)			
	☐ All b)☐ Some * c)☐ None of:	in priority unit	ici 00 0.0.0. 3 115(a)	r-(u) or (i).			
۵,		nts have heer	received				
	 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No 						
	Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Burea	-		od ar uno riduoria	Clage		
* (See the attached detailed Office action for a lis	•	• • •	ed.			
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Attachmen	• •						
1) 🔼 Notic 2) 🗌 Notic	e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)		4) Interview Summary (PTO-413) Paper No(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08)			5) Notice of Informal Patent Application				
Pape	r No(s)/Mail Date <u>3/26/07</u> .	6) Other:					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 3/26/07 has been entered.

2. The indicated allowability of claims 1-5 recited in the Office action mailed 12/27/06 is withdrawn in view of the newly discovered references to U.S. Patent No. 5,914,701 issued to Gersheneld et al. and U.S. Patent No. 6,777,922 issued to Tajima et al. Rejections based on the newly cited references follow.

Information Disclosure Statement

3. The examiner has considered the documents listed in form PTO-1449 submitted with the Information Disclosure Statement (IDS) received 3/26/07 (see the attached form PTO-1449).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gersheneld et al. (U.S. Patent No. 5,914,701, hereinafter referred to as "Gersheneld") in view of Tajima et al. (U.S. Patent No. 6,777,922 hereinafter referred to as "Tajima").

Gersheneld teaches a gesture-based input device for a user interface of a computer (100) comprising: an array (102) of receivers (22), each including a pair of electrodes (24, 26). mounted on a display screen (104) for capturing a quasi-electrostatic field surrounding a user (10) in order for the user interface to provide different option or tasks to be selected by the user; a platform (108) for supporting the user foot (110); a quasi-electrostatic field generator source (14) connected to the platform; and a circuitry connected to the electrodes for determining a position of a part of the user (a user hand 112) being closest to electrodes, see Figs. 1-3 and 7. col. 4, line 38 to col. 6, line 4; and col. 7, lines 6-30. However, Gersheneld does not teach: (i) two pair of electrodes scalable for any screen size, and (ii) the position of the part of the user in each dimension of the electrodes is determined based on a relation of four voltage signals of the circuitry, respectively, each voltage signal indicating a distance between the part of the user and the respective electrode, whereby the position within the electrode closest to the part of the user is determined without any calibration of a sensor system. Tajima teaches a gesture-based input device for a user interface of a computer (373) comprising: (i) an array of sensor system comprising two pair of electrodes (411X1, 411X2, 411Y1 and 411Y2) scalable for a display screen (371), and (ii) a circuitry comprising specific circuits (412-420) connected the electrodes and the computer for determined the position of the finger of a user (1) in each dimension of the electrodes of the input device (2) based on a relation of four voltage signals ("inducing voltage") of the circuitry, respectively, each voltage signal indicating a distance between the user finger

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and the respective electrode, whereby the position within the electrode closest to the part of the user is determined without any calibration of a sensor system, see Figs. 1, 3, 28 and 30; col. 5, lines 23-37; col. 18, lines 26-44; and col. 19, line 59 to col. 21, line 29. It would have been obvious to one of ordinary skill in the art at the time the invention was made to the two pairs of electrodes and the induced voltages as taught by Tajima for the Gersheneld sensor electrodes for producing the claimed invention because this would provide an improved gesture-based input device that makes use of a simple electrodes arrangement for obtaining induced voltages for effectively performing a computer-user interface. By this rationale, claim 1 is rejected.

Allowable Subject Matter

6. Claims 2-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. They are U.S. Patents Nos.: 7,170,489 and 6,771,161, which teach gesture-based input systems.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry N. Tran whose telephone number is 571-272-7760. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin H. Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Henry N Tran Primary Examiner

Henry N. Trom

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HT 4/6/07